

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
0980/64609-ZSerial No.
10/106,991

INFORMATION DISCLOSURE CITATION

BY APPLICANT

(Use several sheets if necessary)

Applicant
Zuhua Zhu, et al.Filing Date
March 26, 2002Group
2812

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number							Date	Name	Class	Subclass	Filing Date if Appropriate
PN	AA	5	2	5	6	5	9	6	10/26/93	Ackley et al.			
	AB	5	2	5	8	3	1	6	11/02/93	Ackley et al.			
	AC	5	5	5	7	6	2	7	09/17/96	Schneider, Jr. et al.			
	AD	5	5	5	9	0	5	3	09/24/96	Choquette et al.			
	AE	5	7	2	4	3	7	6	03/03/98	Kish, Jr. et al.			
	AF	5	8	3	1	2	9	5	11/03/98	Huang et al.			
	AG	5	8	3	7	5	6	1	11/17/98	Kish, Jr. et al.			
	AH	5	9	8	5	6	8	6	11/16/99	Jayaraman			
	AI	6	1	6	0	8	3	0	12/12/00	Kiely et al.			
	AJ	6	1	6	9	7	5	6	01/02/01	Chirovsky et al.			

FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No
	AK													
	AL													
	AM													

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PN	AN	Choquette, "The Technology of Selectively Oxidized Vertical Cavity Lasers," at Chapter 2 of Cheng and Dutta, eds., <i>Vertical-Cavity Surface-Emitting Lasers: Technology and Applications, Vol. 10 of Optoelectronic Properties of Semiconductors and Superlattices</i> , Manasreh, ed., Gordon and Breach Science Publishers (2000).
	AO	Chua, C.L. et. al., "Planar laterally oxidized vertical-cavity lasers for low-threshold high-density top-surface-emitting arrays," IEEE Photonics Technology Letters, Vol. 9, No. 8, pp. 1060-2 (August 1997)
	AP	Deppe, "Optoelectronic Properties of Semiconductors and Superlattices," at Chapter 1 of Cheng and Dutta, eds., <i>Vertical-Cavity Surface-Emitting Lasers: Technology and Applications, Vol. 10 of Optoelectronic Properties of Semiconductors and Superlattices</i> , Manasreh, ed., Gordon and Breach Science Publishers (2000).

EXAMINER

Phillip Nguyen

DATE CONSIDERED

3/1/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
0980/64609Serial No.
10/106,991

INFORMATION DISCLOSURE CITATION

BY APPLICANT

(Use several sheets if necessary)

Applicant
Zuhua Zhu, et al.Filing Date
March 26, 2002Group
2812

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number							Date	Name	Class	Subclass	Filing Date if Appropriate
PN	AA	6	4	6	5	8	1	1	10/15/02	Peters et al.			
	AB												
	AC												
	AD												
	AE												
	AF												

FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No
	AG													
	AH													

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PN	AI	Deppe et al, "Low-threshold vertical cavity surface emitting lasers based on oxide confinement and high contrast distributed Bragg reflectors," IEEE Journal of Selected Topics in Quantum Electronics, vol. 3, no. 3, pp. 893-904 (June 1997).
	AJ	Dutton, Understanding <i>Optical Communications</i> (Prentice Hall 1998), at pp. 159-161.
	AK	Jewell et. al., "Vertical cavity surface emitting lasers: design, growth, fabrication, characterization", IEEE Journal of Quantum Electronics, vol. 27, no. 6, pp. 1332-1346 (June 1991).
✓	AL	Nishiyama et. al., "Multi-oxide layer structure for single mode operation in vertical cavity surface emitting lasers," IEEE Photonics Technology Letters, vol. 12, no. 6, pp. 606-8 (June 2000).
✓	AM	Sale, T.E., <i>Vertical Cavity Surface Emitting Lasers</i> , Wiley & Sons (1995)

EXAMINER

Philip Nguyen

DATE CONSIDERED

3/1/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.